



EnSafe / Allen & Hoshall

a joint venture for professional services

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MEMORANDUM

TO: Mark Taylor/David Porter, SOUTHDIV
Tonya Barker/Rob Williamson, NAS Memphis
Jack Carmichael, USGS
David Williams, EPA
Jim Morrison/Jordan English/Clint Willer, TDEC

FROM: Lawson Anderson, E/A&H *LA*

SUBJECT: Project Update #7; NAS Memphis RFI; Millington, Tennessee; CTO-094

DATE: January 17, 1995

PROPOSED DRILLING STRATEGIES: The January 3 memo proposing drilling strategies for Assembly A SWMUs has been approved by the TDEC and USEPA Region IV. After a January 6 telephone discussion of the memo with Jack Carmichael (USGS), Jim Morrison (TDEC-DSF) approved the proposed strategies without change. In a January 11 conference call with Mark Taylor (SOUTHDIV) and Lawson Anderson (E/A&H), David Williams (USEPA) approved the strategies with the condition that the following changes be made:

SWMU 3 (N-121 Plating Shop Drywell) — Add one monitoring well screened in the lower fluvial deposits at the drywell. PVC is okay for well construction; however, we should sample for solvents within 48 hours of well development, if possible.

SWMU 5 (Aircraft Fire Fighting Training Facility) — Add one downgradient monitoring well screened in the lower fluvial deposits. Assuming that groundwater flow direction is to the south in the fluvial deposits, the well will be on the southeast side of the site so it will be relatively close to existing loess monitoring well MW-05 (where DCE was detected in 1992).

SWMU 7 (N-126 Plating Shop Drywell) — Okay as proposed, but monitoring wells close to the drywell should be constructed of PVC because metals will be the primary contaminant of concern near the drywell. All other SWMU 7 monitoring wells should be constructed of stainless steel.

MSCHD MONITORING WELL CONSTRUCTION PERMIT: On January 5, I spoke to Greg Parker of the Memphis and Shelby County Health Department (MSCHD) about modifying the Assembly A well construction permit. He said that submittal of a new permit application

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for Assembly A would be required because the subcontractor doing the drilling is not the same subcontractor that did the DPT work. A new application was prepared, signed, and faxed to the MSCHD on January 6. Emergency Permit #95-012 was then issued. After TDEC/USEPA approval of the proposed drilling strategies, a revised application was submitted to reflect the addition of the lower fluvial deposits monitoring wells at SWMUs 3 and 5). Cleaned up site maps were also submitted to replace the rough drafts faxed with the original application. Copies of these maps have been included with this memo.

DRILLING ACTIVITIES: As previously noted, drilling activities began Monday, January 9. The first 10-day shift will end Thursday, January 19 (which is actually 11 days). An extra day was added so that subsequent shifts would begin on Tuesdays, instead of Mondays. This will keep the field crews from having to travel on weekends.

One rotasonic drill rig moved to SWMU 7 Sunday afternoon (January 15) to begin the four deep (approx. 180 feet) soil borings. The first boring was completed yesterday afternoon. It appears that each boring will take about one day of drilling time, plus some time for decon of the rig and set up on the next hole. The other rotasonic rig is completing monitoring wells at the five background locations. After the background well clusters are completed, that rig will move to SWMU 3.

Due to wet ground and the weight of the rigs, gravel was brought in to provide access to background well cluster BW-2. Gravel will be delivered today for use at SWMUs 8 (Cemetery Disposal Area) and 60 (Northside Landfill).

DPT SURVEY: Data summary tables and sample location maps are being prepared.

SWMU 45 INTERIM MEASURE: All sample results have been received and are being validated. Validation should be completed today. A summary table of validated results should also be ready for distribution today. A sample location map is being prepared to go with the table.

GRAY AREA INVESTIGATION: The data from resampling of lake sediments for herbicide analysis is expected in this week. Validation of Gray Area data should take two about two weeks. A summary table of preliminary (non-validated) results is being prepared for review during the January BCT meeting.

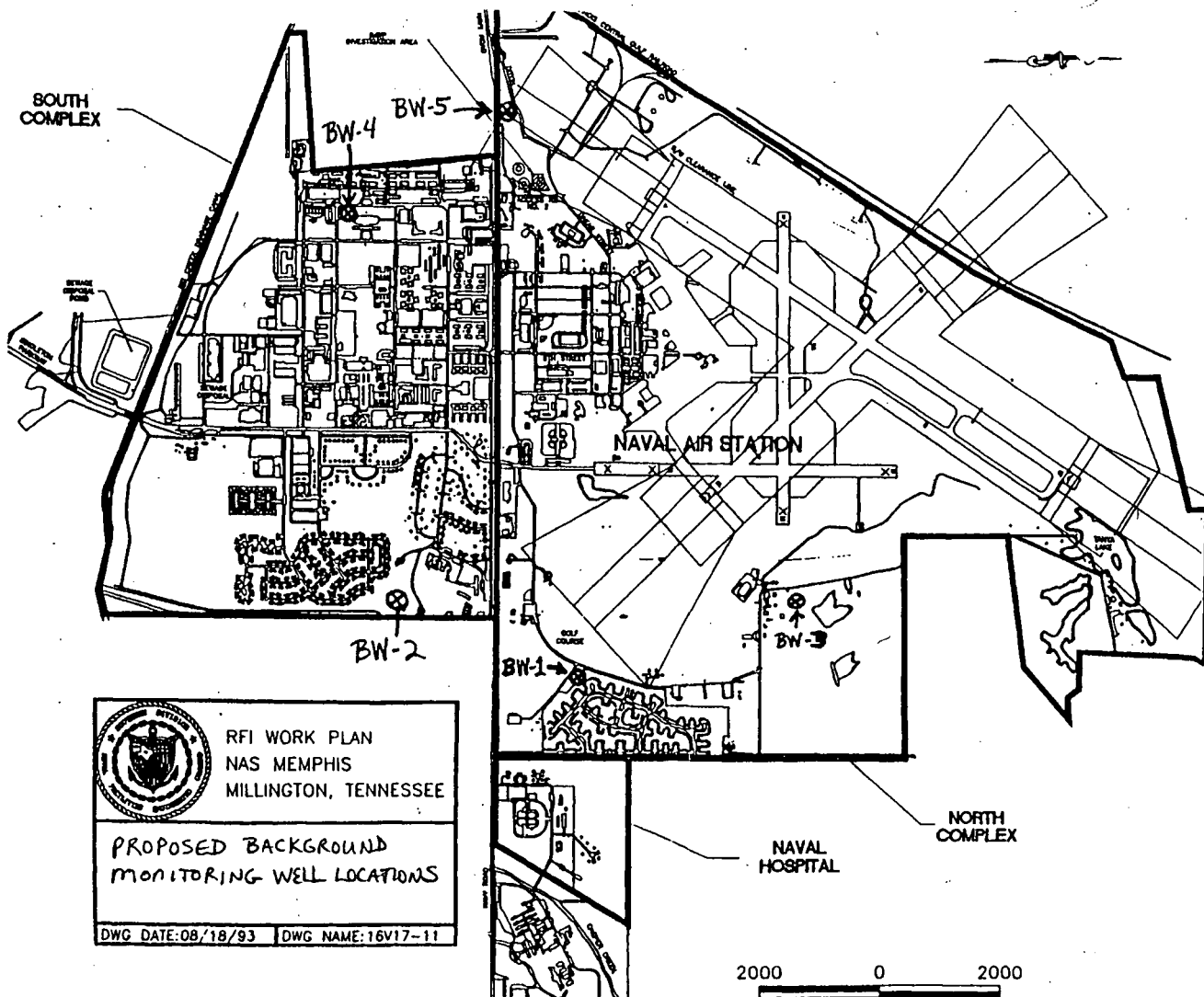
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ASSEMBLY C SIPs: Preparation of the Draft Assembly C SIPs continues with a target date for distribution of Friday, January 20.

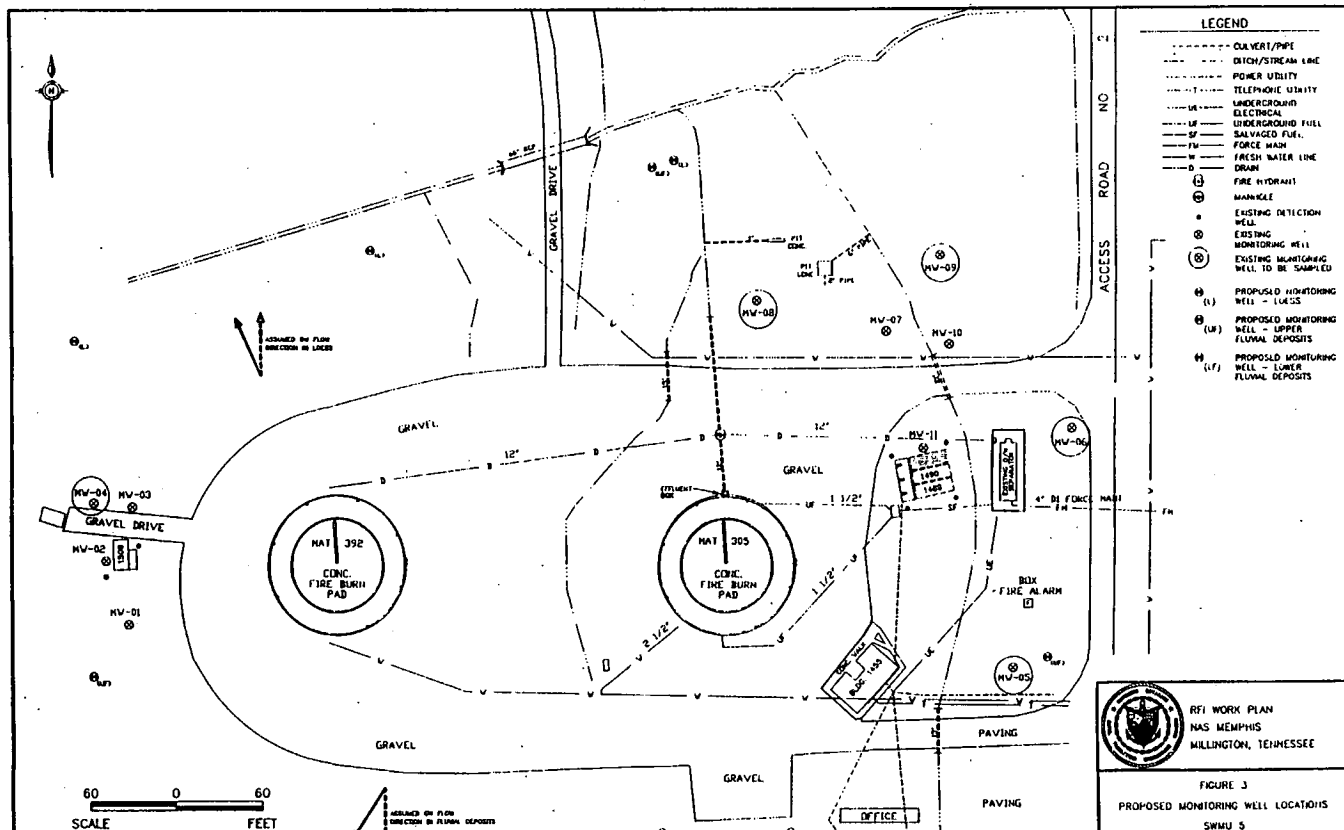
AERIAL MAPPING: Bids are due today, not January 9 as previously reported. Two of four potential bidders have indicated that they will submit a bid.

SWMUs 27 AND 36 — NORTHSIDE STP AND INCINERATOR: Detailed plans for the sewage treatment plant and incinerator have been obtained and will be brought to the January BCT meeting for review and discussion.

DISCHARGE OF DECON WATER TO POTW: Permission was received to discharge decon water to the sanitary sewer in a January 5, 1995 letter from Jim Cox. The letter requests that "Should further analyses show higher levels, please contact us prior to discharge."



11' x 17" REDUCED TO 8.5" x 11"



NEAREST PRODUCTION WELL
APPROX. 1000' IN THIS
DIRECTION



GM-6
⊗ (UF)
● (L)

N-121

● (L)
● (UF)

(L) □ ● (LF)

CASABLANCA STREET

GM-8
(UF) ● ⊗ (L)

GM-7
(UF) ⊗ ● (L)

ASSUMED G W
FLOW DIRECTION

1512

50 0 50
SCALE FEET

LEGEND

- ⊗ EXISTING MONITORING WELLS
- PROPOSED MONITORING WELLS
- DRY WELL (NOT TO SCALE)
- (L) LOESS
- (UF) UPPER FLUVIAL DEPOSITS
- (LF) LOWER FLUVIAL DEPOSITS



RFI WORK PLAN
NAS MEMPHIS
MILLINGTON, TENNESSEE

FIGURE 2
PROPOSED MONITORING WELL LOCATIONS
BUILDING N-121
SWMU 3

DWG DATE: 01/13/95 DWG NAME: 16PSB121

